

## ABSTRACT OF THE DISCLOSURE

A quartz oscillator includes a base having a recessed portion provided on one face thereof by processing to have an inverse mesa shape, a quartz thin-film formed on the other face of the base by epitaxial growth to have a thickness of 10  $\mu\text{m}$  or less, a vibrating reed portion, and excitation electrodes for mechanically supporting the quartz thin-film and for vibrating the vibrating reed portion.

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